



## **Aero Design Ltd.**

9888 A Malaspina Rd., Powell River, BC  
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 82782-01

Aircraft: Eurocopter

Model: AS350/355

Description: Bracket

Supplier: Aero Design

Color: Black

WO#: 2014-16

PO# N/A

23 APR 2018



Description: AS350 Short Dart Step Assembly

WO# 2014-16

[illegible]

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE FORM ONE</b>			3. Form Tracking No. <b>2018-0042, Rev. 1</b>		
4. Organization Name and Address <b>AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3</b>					5. Work Order/Contract/Invoice <b>WO 2014-16</b>		
6. Item <b>1.</b>	7. Description <b>Bracket</b>	8. Part Number <b>82782-01</b>	9. Qty. <b>11</b>	10. Serial/Batch No. <b>N/A</b>	11. Status/Work <b>New</b>		
12. Remarks <b>Revision 1 - 26 April 2018 - to correct P/N from 82733-01 to 82782-01</b> <i>jc</i>							
13a. Certifies that the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12. Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.				
13b. Signature <i>Jeff Clarke</i> <b>73-04 02</b>		13c. Approved Organization Number <b>AMF 73-04</b>		14b. Signature		14c. Approved Organization Number	
13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mm/yyyy) <b>15 Mar 2018</b>		14d. Name		14e. Date (dd/mm/yyyy)	
<b>Installer Responsibilities</b>							
<p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>							

1. Approving Civil Aviation Authority/Country  
Transport Canada

2. AUTHORIZED RELEASE CERTIFICATE  
FORM ONE

3. Form Tracking No.

4. Organization Name and Address

AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3

5. Work Order/Contract/Invoice

WO 2014-16

6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work
	Bracket	82782-01	2	N/A	New

12. Remarks

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- ☒ Approved design data and are in condition for safe operation.  
☐ Non approved design data specified in block 12.

14a. ☐ CAR 571.10 Maintenance Release

☐ Other regulation specified in block 12

~~Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.~~

13b. Signature

13c. Approved Organization Number

14b. Signature

14c. Approved Organization Number

13d. Name

Jeff Clarke - AD02

13e. Date (dd/mmm/yyyy)

22 Feb 2016

14d. Name

14e. Date (dd/mmm/yyyy)

**Installer Responsibilities**

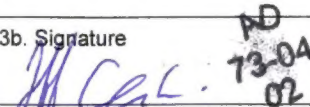
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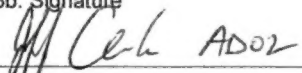
MOUNTAIN WEST

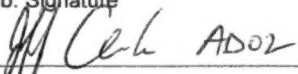


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13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mmm/yyyy) <b>15 Mar 2018</b>		14d. Name		14e. Date (dd/mmm/yyyy)
<p style="text-align: center;"><b>Installer Responsibilities</b></p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>						


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 <b>AD02</b>		<b>AMF 73-04</b>			
13d. Name		13e. Date (dd/mm/yyyy)		14e. Date (dd/mm/yyyy)	
<b>Jeff Clarke – AD02</b>		<b>29 Jan 2015</b>			
<b>Installer Responsibilities</b>  This certificate does not constitute authority to install. Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified. Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.					

MBR

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13d. Name <b>Jeff Clarke - AD02</b>		13e. Date (dd/mmm/yyyy) <b>02 Feb 2015</b>		14d. Name		14e. Date (dd/mmm/yyyy)
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<b>Jeff Clarke - AD02</b>		<b>02 Feb 2015</b>				
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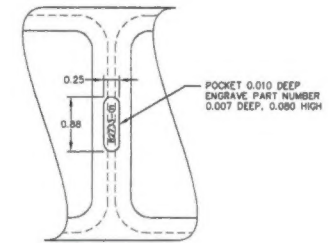
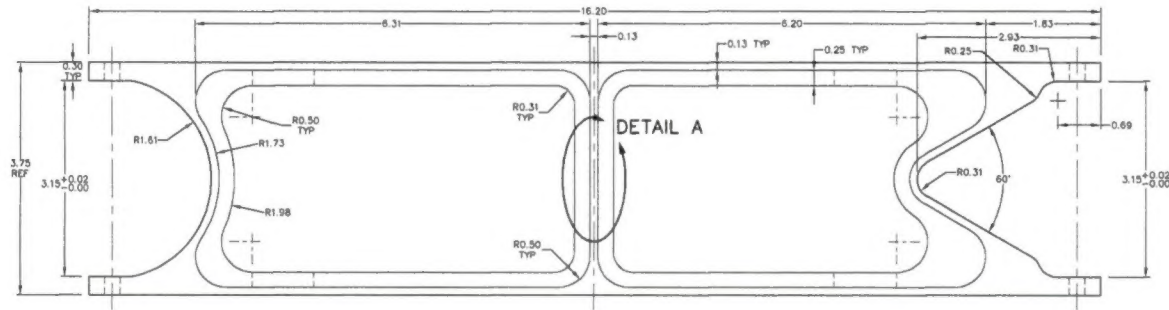


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 Jeff Clarke - AD02		AMF 73-04				
13d. Name		13e. Date (dd/mm/yyyy)		14d. Name		14e. Date (dd/mm/yyyy)
Jeff Clarke - AD02		10 Mar 2015				
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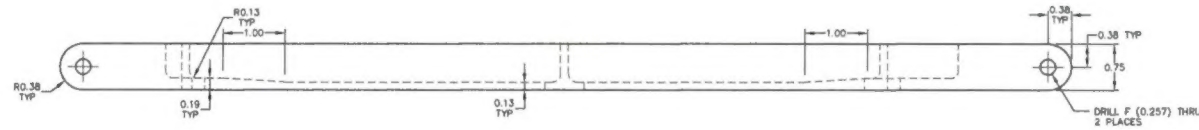
AIRBUS A324

2014-16

THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DISSEMINATED IN ANY MANNER, NOR USED FOR MANUFACTURING, WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREIN.			
REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	CHANGE BUSHING (ITEM 02), REMOVE BUSHING (ITEM 03)	BJC	29 AUG 12
2	TITLE BLOCK UPDATED; CENTRE SUPPORT AND UPPER PROFILE RAD. INCREASED	BJC	30/07/2014



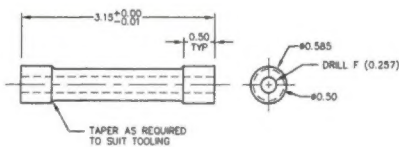
DETAIL A  
LOOKING AT OPPOSITE SIDE



01 BRACKET

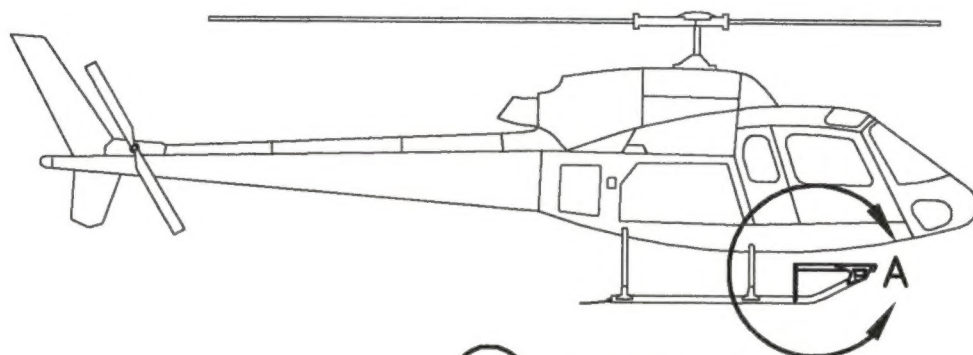
NOTES

1. REMOVE ALL BURRS AND BREAK SHARP EDGES.
2. THOROUGHLY DEGREASE, ALCOHOL, EPOXY PRIME AND POLYURETHANE PAINT ALL ALUMINUM PARTS PRIOR TO ASSEMBLY.  
ALTERNATE: ANODIZE ALL ALUMINUM PARTS IN ACCORDANCE WITH MIL-A-8625F, TYPE II.  
ALTERNATE: BRACKET (ITEM 01) TO BE THOROUGHLY DEGREASED AND POWDER COATED PRIOR TO ASSEMBLY.

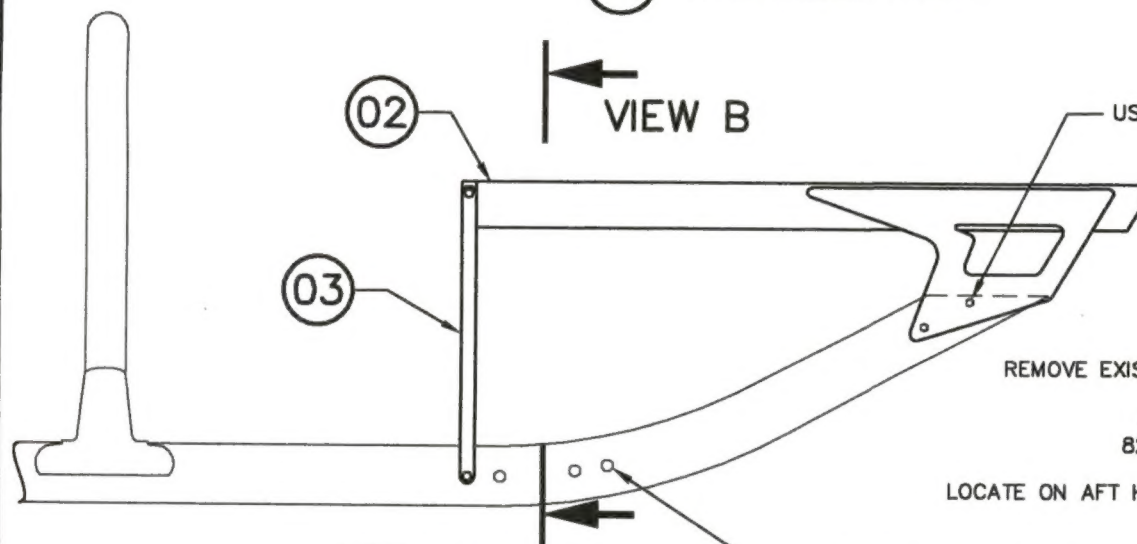


02 BUSHING

	--	03	--												
1	82733-02	02	BUSHING	6061-T6 ALUMINUM	QQ-A-200/8	0.625 ROD									
1	82733-01	01	BRACKET	6061-T6 ALUMINUM	QQ-A-200/8	4 X 0.75 BAR									
	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE									
QTY															
LIST OF MATERIALS															
<table><tr><td>APPROVALS</td><td>DATE</td></tr><tr><td>DRAWN: JEFF CLARKE</td><td>18 MAR 2010</td></tr><tr><td>CHECKED: E. BURGOIN</td><td></td></tr></table>				APPROVALS	DATE	DRAWN: JEFF CLARKE	18 MAR 2010	CHECKED: E. BURGOIN		<div><div><b>AERO DESIGN LTD.</b> 888A MALASPINA ROAD POWELL RIVER, BC, CANADA, V8A 0G3 TEL: 604.480.9076    <a href="http://www.aerodesign.ca">www.aerodesign.ca</a></div></div>					
APPROVALS	DATE														
DRAWN: JEFF CLARKE	18 MAR 2010														
CHECKED: E. BURGOIN															
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:				EUROCOPTER AS350/AS355 SERIES FIXED CABIN STEP SHORT STEP PARTS FABRICATION											
DECIMALS		ANGLES		SCALE 1 : 1		DWG SIZE		DWG NO.							
X.XXX ±0.010		±1/2°		SHEET 1 OF 1		A1		82733							
X.XX ±0.03								2							
X.X ±0.1															



## 01 INSTALLATION



### DETAIL A

LOOKING INBOARD AT RIGHT SIDE, LEFT SIDE OPPOSITE

VIEW B

USE ORIGINAL HARDWARE

REMOVE EXISTING BOLT, NUT AND PLUGS

AN4-42A BOLT

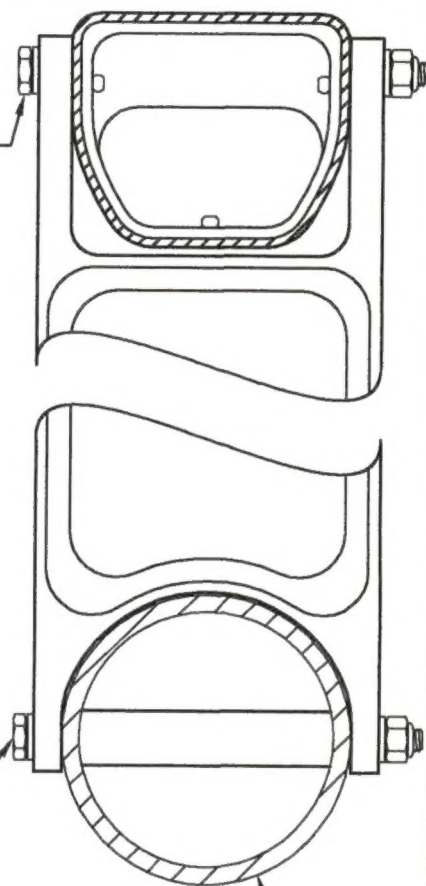
NAS1149F0463P WASHER (2)

82733-02 BUSHING (ITEM 04)

MS21044N4 NUT

LOCATE ON AFT HOLE FOR FLOAT PROVISIONS

PROVISION FOR FLOAT INSTALLATION  
4 PLACES  
(REFERENCE)



### VIEW B

LOOKING AFT  
THROUGH STEP AND SKID TUBE

SKID TUBE  
(REF)

2	MS21044N4	NUT
4	NAS1149F0463P	WASHER
2	AN4-42A	BOLT
1	82733-02 04	BUSHING
1	82782-01 03	BRACKET
1	82770-10 02	STEP ASSEMBLY (SEE SHT. 2)
1	82770-01 01	INSTALLATION
01	PART NO.	ITEM DESCRIPTION
QTY	LIST OF MATERIALS	

APPROVALS	DATE
DRAWN: JEFF CLARKE	13 JAN 2011
CHECKED: E. BURGOIN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:	
DECIMALS	ANGLES
X.XXX ±0.010	±1/2"
X.XX ±0.03	
X.X ±0.1	



**AERO DESIGN LTD.**

9888A MALASPINA ROAD  
POWELL RIVER, BC, CANADA, V8A 0G3  
TEL: 804.483.2376 [www.aerodesign.ca](http://www.aerodesign.ca)

EUROCOPTER AS350 & AS355 SERIES  
FIXED CABIN STEP - DART CONVERSION  
SHORT STEP INSTALLATION

NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 3	A4	82770	1







REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	TITLE BLOCK UPDATED; HARDWARE UPDATED; METRIC UNITS ADDED; NOTE 1	BJC	29/07/2014

# NOTES


1. THIS DRAWING IS FOR THE MODIFICATION AND INSTALLATION OF DART CABIN STEPS TO BE COMPATIBLE WITH AERO DESIGN LTD. BASKETS. REMAINDER OF INSTALLATION AND MAINTENANCE REMAINS IN ACCORDANCE WITH DART DOCUMENTATION AND AERO DESIGN LTD. INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICAB27.92.
2. THIS INSTALLATION IS COMPATIBLE WITH ALL AERO DESIGN LTD. QUICK RELEASE CARGO BASKET INSTALLATIONS IN ACCORDANCE WITH STC SH08-16.
3. THIS INSTALLATION MAY BE APPLIED TO THE RIGHT AND/OR LEFT SIDES. WEIGHT AND BALANCE IS GIVEN FOR RIGHT SIDE, LATERAL ARM IS NEGATIVE FOR LEFT SIDE.
4. SEAL ALL JOINTS USING PR1422B2 SEALANT OR EQUIVALENT. INSTALL RIVETS WET.
5. PAINT BRACKET (03) AND CAP (12) AS REQUIRED.
6. TORQUE AN4 BOLTS TO 50 - 70 INCH-POUNDS (5.6 - 7.9 N-m).

## WEIGHT AND BALANCE - METRIC

ITEM	DESCRIPTION	WEIGHT (KG)	LONGITUDINAL		LATERAL	
			ARM (MM)	MOMENT (KG-MM)	ARM (MM)	MOMENT (KG-MM)
01	SHORT STEP INSTALLATION	2.3	1765	3994	1000	2262

## WEIGHT AND BALANCE - STANDARD

ITEM	DESCRIPTION	WEIGHT (LB)	LONGITUDINAL		LATERAL	
			ARM (IN)	MOMENT (LB-IN)	ARM (IN)	MOMENT (LB-IN)
01	SHORT STEP INSTALLATION	5.0	69.5	347.5	39.4	197.0

THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING, OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DUPLICATED IN ANY MANNER, NOR USED FOR MANUFACTURING WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREON.	APPROVALS		DATE			<b>AERO DESIGN LTD.</b>				
	DRAWN: JEFF CLARKE		13 JAN 2011			9888A MALASPINA ROAD POWELL RIVER, BC, CANADA, V8A 0G3 TEL: 604.483.2376      www.aerodesign.ca				
	CHECKED: E. BURGOIN									
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS      ANGLES X.XXX ±0.010      ±1/2" X.XX ±0.03 X.X ±0.1					<b>EUROCOPTER AS350 &amp; AS355 SERIES          FIXED CABIN STEP - DART CONVERSION          SHORT STEP INSTALLATION</b>				
					NOT TO SCALE		DWG. SIZE <b>A4</b>	DWG. NO. <b>82770</b>	REV. <b>1</b>	
					SHEET 3 OF 3					



WO# 2014-16

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013